ARMATURA

FT10CMQ

All Weather Multi-Tech Smart Multimodal Biometric Terminal

- Multimodal biometric technology, touchless palm and face authentication
- IP66 & IK07 Dustproof, waterproof and impact protection rating
- Supports 125 kHz and 13.56 MHz frequency credentials
- Supports reader (Coming soon) and standalone terminal mode
- Supports multiple mount types (Single gang/ European/ Asian box)















Modern Aesthetic Design

The build of the FT10 blends a high-quality metal enclosure with a tempered glass panel. Frontier design, elegant oval arc profile, leading the new trend of intelligent identification terminal, to bring users a new practical and reliable experience.



Multi-Factor Authentication Capability

Offering credential options of palm, face, Mobile Credentials, physical cards and QR codes. *EM, MIFARE, DESFire, FeliCa, HID Prox/iCLASS/Seos, etc. *Integrate advanced multiple biometric authentication methods such as palm and face code scanning for visitors & employees.

*QR code scanning for visitors & employees.



Dual Installation Mode

The FT10 terminal offers a dual installation mode. It can function as a standalone terminal, directly communicating with the Armatura One server via TCP/IP. It can also serve as a face-authentication reader (coming soon) when paired with AHSC-1000 and AHDU series controllers via OSDP over RS485 communication.



Video Intercom

The FT10 supports SIP video intercom function suitable for most visitor scenarios. Two-way audio streaming with echo and noise cancellation lets you easily communicate with visitors.



Superior Protection Level

IP66 and IK07 Certified with IP66 Water and dustproof ratings, our readers are designed to withstand dust, dirt, and rain, ensuring reliable performance in challenging environments. Additionally, with a certified IK07 Vandal-proof rating, they offer enhanced protection against tampering and vandalism.



Installation Made Easy

Robust design & form factor makes this device easy to install. PoE option allows for minimal use of cabling and lowers the cost of installation. FT10 supports multiple mount types (Single gang/ European/ Asian box) to meet most scenarios worldwide. Mounting accessories for speed gates are also available.



Advanced Security

Secure communication: OSDP(V2.2) over RS-485 communication between the FT10 and access control panels. Using AES-128 encryption standards ensures the highest levels of data protection & security.

Secured Data Storage: The utilization of Certified EAL6+ encryption chips elevates data protection performance to the highest security level, ensuring top-notch financial-grade security.



Unrivaled Palm and Face Authentication Performance

ARMATURA's Multi-Biometric technology combines palm and face authentication with our unique deep learning algorithm to give users an efficient authentication experience. Industry-leading combination of visible and NIR infrared authentication technology provides exceptional authentication accuracy and the industry's top-notch anti-spoofing protection.



Supports Multi-Card Types

Supports 125kHz and 13.56MHz frequency credentials. Supports various card types including EM, MIFARE, DESFire, FeliCa, HID Prox/iCLASS/Seos, etc.



Sleep-and-Wake Mode

In sleep mode, the breath light flashes alternately. In wake mode, the ring light is highlighted white. This setting can reduce the unnecessary heat loss caused by the machine in the case of undetected, better protect the machine and long-term performance.



Multi-tech Card & Mobile Credentials

Supports multi-card types in a standard package with various optional RFID modules that cover up to over 10 extra advanced secured RFID protocols, which almost cover most of the end-user requests, enabling high flexibility for multi-card types and mobile credentials situations.



Better Images, Faster Authentication

This device supports palm/ face tracking, which can more intelligently capture the user's biometrics and prevent the user's biometrics from continuing to be compared after verifying. At the same time, the palm/ face Automatic Exposure function enables the device to obtain higher-quality images which improves the authentication accuracy.



Wide Input Voltage

The device is compatible with 12V-24V input voltages.





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Dimensions



	A COL	General Information
	Primary Power	DC 12V@3A-24V@1.5A ±10%
	Operating Frequency/ Standards:	125KHz; 13.56MHz: ISO14443 types A&B, JIS X6319, ISO15693 2.4GHz Bluetooth
AA	POE	Supported (IEEE 802.3 at compliant)
	RS-485 connection	RS-485 standard/ OSDP V2.2
	CPU NPU	1.2GHz Quad Core ARM Processor 2.4 TOPs NPU
	Memory	2 GB RAM + 16 GB Flash
MA	Camera	CMOS, 2 MP resolution IR: Global shutter CMOS, 1.3 MP resolution IR-CUT: CMOS, 2 MP resolution Resolution: 720*960 pixels
	Ethernet network connection	10 Base-T/ 100 Base-TX, Auto MDI/ MDIX
	Data Protection	Complies with TLS 1.2 for end-to-end secure communication channel (Secured Communication between the FT10 & Server) (Standalone Mode) AES128 (Secured Communication between the FT10 & OSDP Readers) (Standalone Mode)
AD	Number of Ports	1*TCP/ IP 1*RS-485 4ch TTL Inputs 1ch TTL Output 1 Mechanical Relays & 2 Photorelay
	Inputs	Wiegand, Button, Sensor, Aux
	Outputs	Wiegand, Lock Relay, Alarm Relay (Relay via dry contacts), Bell Relay(Relay via dry contacts)
MA	Normally Open Contact Rating	2A @30Vdc resistive
	Normally Closed Contact Rating	2A @30Vdc resistive
	Tamper Switch	Magnetic tamper detection system



Audio Indicator	Internal speaker with adjustable intensity
MIC	Supported
Video Intercom	Support Standard SIP V2.0
User Capacity	50,000
RFID Card Capacity	50,000
Maximum Wiegand Bits	Wiegand In & Out (up to 64 bits)
Face Capacity	10,000 (1:N)/ 50,000 (1:1)
Palm Capacity	5,000 (1:N)/ 20,000 (1:1)
RFID Reading Distance	13.56MHz & 125kHz: Up to 1.96"/ 50 mm (depending on environment and transponder)
Face Authentication Distance	Dual Camera Liveness Detection On: 15.7" - 55.1" (400mm - 1400mm) Single Camera Liveness Detection On: 15.7" - 78.7" (400mm - 2000mm)
Face Authentication Posture Adaptability	Yaw ≤ 30°, Pitch ≤ 30°, Roll ≤45°
Face Authentication Accuracy	True Accept Rate (TAR)=99%, False Accept Rate(FAR)=0.01%
Face Authentication Mode	1:1, 1:N
Face Authentication Speed	<300ms (Field Test Result)
Face Authentication Liveness Detection	Yes (Infrared-visible light mode, Infrared Light Mode)
Face Mask Detection	Yes
Palm Authentication Distance	Liveness Detection On: 7" -15.7" (180mm - 400mm)
Palm Authentication Posture Adaptability	Yaw ≤ 45°, Pitch ≤ 30°, Roll ≤ 90°, Bend ≤ 30°
Palm Authentication Accuracy	True Accept Rate(TAR)=98.7%, False Accept Rate(FAR)=0.01%
Palm Authentication Mode	1:1, 1:N
Palm Authentication Speed	< 140ms (Field Test Result)
Palm Authentication Liveness Detection	Yes (Infrared Light Mode)
QR Code Detection	QR Code Scanner: Supported QR Code Scanning Pattern: Area image (720*1280 pixel array) QR Code Scan Angle: Horizontal: 37.9°/ Vertical: 62.9° QR Code Capability: QR Code (Armatura ID); Static QR (customizable) QR Code Scanning Performance*: Armatura ID QR Code:0.5"-2.05" (12.7mm - 52.07mm); BioCode:0.59"-1.26" (15mm - 32mm)
Recommend Installation Height	55" (1400mm) (Using the plate with tilt angle) 59" (1500mm) (Plate with horizontal angle)
Transaction Buffer	Records: 1,000,000
Access group	99
Access Point Control	1 access point on board
Reader Support	1 (OSDP over RS-485) or 1 (Wiegand Input)
Protection / Resistance	Weather & Dust Proof Protection Rating compliant with IP66 Reinforced Vandal-proof Structure IK07 certified



	Wkhne.	RFID / Biometrics Reader Interface	
	Output Voltage	12V-24V (Equal to primary power input)	
LD)	Maximum Output Current	0.8A	ADMATURA
VIII	RS-485 Protocol	OSDP V2.2 Secure Channel, AES-128	Blein
	OSDP Mode	9600-115200 bps, OSDP V2.2, asynchronous, half-duplex, 1 start bit, 8 data and1 stop bit.	bits,
	Wiegand	Wiegand In & Out (Up to 64 bits)	
	Data Inputs	TCP/IP, RS-485, OSDP and Wiegand standards supported.	101
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		Cable Requirement				
	Power	16AWG or 18AWG (DO NOT extend the length of power cable when using the power adapter)				
	Relays	Twisted pair, 18 to 16 AWG				
	Ethernet	CAT-5E, Wire diameter (24AWG), maximum 330 ft. (100m) PoE: CAT-6A, Wire diameter (23AWG), maximum 330 ft. (100m)				
	RS-485 Reader Port	9600-115200 bps, asynchronous, half-duplex, 1 start bit, 8 data bits, and 1 stop bit. One twisted pair with drain wire and shield, 120 ohm resistance, 22-18 AWG, Maximum cable length: 1970 ft. (600m)				
	Wiegand Port	20 AWG shielded, 164 ft. (60m)				
RM	MULL	MIDIC. ARMAIDIC.				
180 .	Box	Machanical				

Dimensions	5.71" × 2.76" × 1.25" (145mm*70mm*31.8mm)
Weight	15.85oz (449.5g)
Mounting	Suited for mullion-mount door installations or any flat surface mounting
Housing Material	Aluminum alloy + Tempered glass

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Man.	Environmental	WKhm.
Operating Temperature	-4°F -131°F (-20°C to 55°C)	
Storage Temperature	-13°F -140°F (-25°C to 60°C)	
Operating Humidity	0 - 90%RH (Non-condensing)	Western
Certification(s)	CE, FCC, RoHS, UL294 (Coming Soon)	
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Software Interface							
TCP/IP Mode	10 Base-T/ 100 Base-TX, Auto MDI/ MDIX						
TCP/IP Protocol	VLAN, SSH, HTTP, IPv4, DNS						
TCP/IP Encryption	Complied up to TLS1.2 end to end secure communication channel						
TCP/IP Communication	Push Protocol over HTTP, HTTPS						
Supported Software	Armatura One Security System						

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Frequency	Classification	Card Module Abbreviation	[RNP]				
Frequency	Classification			1		[RNI]	
		Compatible Readers	OmniAC20, OmniAC30, FT10, EF	P20CQ, EP20CKQ, EP30CF	OmniAC20, C	OmniAC30, FT10, EP20CQ, EP20CKQ, E	≣P30CF
		LEGIC Advant	-11D		-110	-1	101
1		MIFARE Classic, Mini S50,S70,S50	√4)		VIOL	√4)	OL.
		MIFARE Classic EV1	√4)			√4)	
		MIFARE DESFire Light	√4)			√4)	
		MIFARE DESFire EV1	√4)			√4)	
		MIFARE DESFire EV2	√4)			√4)	
		MIFARE Plus S, X	√4)	- WATLIKA	-11	√4)	- 11 1
		MIFARE Pro X	√4)		VBM	√4)	ARME
		MIFARE Smart MX	√4)		171.71	√4)	1717
	ISO14443A	MIFARE Ultralight	√4)			√4)	
		MIFARE Ultralight C	√4)			√4)	
		MIFARE Ultralight EV1	√4)		40.	√4)	-01
		NFC (NTAG2xx)	- 171 K	A	ATIKA	17.	AKA
		PayPass	V DW VI	A DW	7/10	A DM AT	U
		SLE44R35	JIV.	31.7	N. C.	317	
		SLE66Rxx (my-d move)					
		Topaz					
		HID ICLASS SEOS				√20)	
		NFC (HCE Mode, works with Armatura ID)	ATIKA	TIKA		TIKA	- 4 1/2
N.		Calypso	ALXIVO.	ADMAI	A DMI	11011	ADMIN
1 学	Millian	Calypso Innovatron protocol		717	NI NI		717
Σ		CEPAS			,		
92		HID iCLASS					
3.56MHz	ISO14443B	CTS					
-11RHA		Moneo	171 IR		. 41 IR A		ARA
1 011		Pico Pass	OMAION	NOV.	VI Or	I Ma	Otto.
1		SRI4K, SRIX4K	AKIM			VKIII	
		SRI512, SRT512	100			162	
	ISO18092/ ECMA-340	Sony FeliCa	√1)			√ 1)	
		EM4x33					
	I I A Ma	EM4x35	ANTUR!	TOWAT UNIT	140.	HULL	AMO
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		HID iCLASS SE/ SR/ Elite	√1)		100	√10)	190
		iCODE SLI	VII				
		LEGIC Advant					
A GILL		M24LR16/64			-11D A		ID A
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		SRF55Vxx (my-d vicinity)					
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	171	Card Module Abbreviation		[RNP]		[RNI]		
requency	Classification	Compatible Readers	OmniAC20, OmniAC30	OmniAC20, OmniAC30, FT10, EP20CQ, EP20CKQ, EP30CF		OmniAC20, OmniAC30, FT10, EP20CQ, EP20CKQ, EP30CF		
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		CASI-RUSCO	[//1/2		AN MIUINIM	√		
		Cotag Deister	Kalix		Kulin	Khin		
		EM4100, 4102, 4200		\checkmark		√		
		EM4050, 4150, 4450, 4550						
	- 15	EM4305	- 10					
	LTA AZ	FDX-B, EM4105	ALATUKA A					
	SMY1	Ultra Prox	SMIXI	VKW	NRM!	,,,,		
	1800	G-Prox		1311.	131.		171.	
		HID DuoProx II (1336)		√1)		√1)		
		HID ISO Prox II (1386)		√1)		√1)		
		HID Micro Prox II (1391)		√1)		√1)		
		HID Prox III (1346)	. 17	√1)	TIKA	√1)	IK IA	
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		Pyramid	7/17.		71	771.00		
		Q5						
		T5557, T5567, T5577						
		TITAN (EM4050)	10	- 10				
		UNIQUE	ATLIKA	TIKA		ATTIKIA		
	DMAL	ZODIAC	DWW 10.		A D M I			
		Globally Available		Y	7/7/	Υ	W. C.	
	Availability	Globally Available Except for U.S., E.U., Japan, Australia, Canada, U.K., Albania, Iceland, Liechtenstein, Monaco, North Macedonia, Norway, San Marino, Serbia, Switzerland, Turkey, and the United Kingdom	TANG		DY ATURA			

- 1) UID only
- 2) Read /write enhanced security features on request
- Read /write in direct chip command mode
- 4) UID only, read/write on request
- 5) UID + read /write public area

- 6) Hash value only
- 7) Only emulation of 4100, 4102
- 8) On request
- 9) Without encryption
- 10) UID+PAC (CSN & Facility Code), read /write on request
- 11) In preparation

- 13) EV2/EV3 supported as part of the EV1 upward compatibility
- 14) From FW V4.05
- 20) PAC (CSN & Facility Code), read /write on request

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